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<110> Patrick J. Dillon et al.

<120> Nucleotide Sequences of Escherichia coli Pathogenicity Islands

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<150> 08/976,259

<151> 1997-11-21

<150> 60/061,953

<151> 1997-10-14

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<210> 8

<211> 451

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (437)..(437)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (449)..(449)

<223> n equals a, t, g, or c

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451

<210> 9

<211> 720

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (621)..(621)

<223> n equals a, t, g, or c

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<210> 10

<211> 2920

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (3)..(3)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1250)..(1250)

<223> n equals a, t, g, or c

<400> 10

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<210> 11

<211> 1678

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature
 <222> (1666)..(1666)
 <223> n equals a, t, g, or c

<220>

<221> misc_feature
 <222> (1677)..(1677)
 <223> n equals a, t, g, or c

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<210> 12

<211> 2676

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (128)..(128)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (447)..(447)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1100)..(1100)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (2660)..(2660)

<223> n equals a, t, g, or c

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<210> 13

<211> 1485

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (144)..(144)

<223> n equals a, t, g, or c

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<210> 14

<211> 22671

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (19750)..(19750)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (20174)..(20174)

<223> n equals a, t, g, or c

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<223> n equals a, t, g, or c

<220>

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<211> 411

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<213> Escherichia coli

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<211> 400

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<213> Escherichia coli

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<210> 22

<211> 2916

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (2453)..(2453)

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<221> misc_feature

<222> (2908)..(2908)

<223> n equals a, t, g, or c

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<211> 2677

<212> DNA

<213> Escherichia coli

<220>

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<223> n equals a, t, g, or c

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<211> 1128

<212> DNA

<213> Escherichia coli

<220>

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<223> n equals a, t, g, or c

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<223> n equals a, t, g, or c

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attaaccttg cttacagatt ctgccagtct gtttttgggt acgcacttga agataacctg	780
cctgagatct gggacatctg tattatcatc cagcaacaat gcacatgccc gcgccagtaa	840
caatgcggcc tgatcaagat ctttcagtggt cctgagtcctt tttttttgcc cggttttctt	900
tgcttcgcgg ataattgtcca gaattagcat atcaagcaca tcaacggcat cgtctaattgc	960
cgttattttcc tgtgctttta cgaatgcagt aagtacagca agcttttctt gctgtggcat	1020
tcgagcgata tattttaccg acgccatgcc agcatgaacg agccagatta cgcnttggna	1080
atggtcaggc agaccgggaa aagttccagt cgggnaaaac tccaagaa	1128

<210> 26

<211> 2311

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (3)..(3)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (2008)..(2008)

<223> n equals a, t, g, or c

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<400> 26
ggntgataaa aatcytttga tgaataacga taagccgccc agagttatat ttgtgtttga      60
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atacctgaat gctgttctgg acaatgtaat gtcagatgct atagcaccca gatgggtatt      180
aaaggccagg ccagctaacc ccgctgtata tcctgaagct gtggtgaagac cactgtttta      240
agtaatatca ttcgtcaggc cgtattgata ggtgccttgt gctattaaat cattatatgt      300
tttattcgca taacgatact ttcccaactga catttgccag cgactaaatc cgggacgaat      360
gagttgagca acggccgcaa aaggaaccgt gaacattcgt gtctggccat tagactctgt      420
tatcttaacg agaaggcac cagcatatcc actgggatat aaatcattga tgacaaatgg      480
tccggctggc accgtcgttt catagaggat atgagcattt tgataaatgg ttacttttagc      540
attactgtta gctattcccc ggacagcagg rgcatagcca cgtaaagaac cgggtaacat      600
tcgttcatcc gatgctaacc tgactccccg caaactgagg ctatccatta gctcaccatt      660
cgtataaaaa tcccctaatt tgaattgtgc tctcaatggg gcaagggtcat gcattatact      720
tgtttctata ttctgatatc cggcaggata gctattattc cagctctcac tgccacggtg      780
gcgcaaagcc atccccacaa attgaatcca gcttttaatc ccagataagt ctgttcgtta      840
ctcgtcccgg aagagctata ctggtaatag ttagcatcat agtttataaa tgctgcagga      900
acaccacttt gccactgaga aggggaaata tatcctcttg gacgtgtatt cagcagtgt      960
gcgggatttc gatattcaac cttaaagtcg ataagtcaaa attaattctg gctgaagaaa     1020
gccctgttga cgccggaaag caggaggtgt ttcccgacat agtatctttg actaaatcaa     1080
tcaatgaaag cagctcaggc gtcaggcata acgtcggagc accggtattg gcagtacgta     1140
aatactgcaa atcagccttc cccttcata cattattaac ataaatatca gaataatacc     1200
tgccctcagg cacagggtta ccatgactaa agcggcggat atcaatagca tttatccctt     1260
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ttactgttaa ccctaattgca gcaaaaagca gaagagaaca acgacagtaa atcaggcatg     1380
acagattatt agcgttcatt attaccttac tccagaacag attctccttg ctgatatcct     1440
ccgtaatcat taacaataac ccaggaaact ttgctggtgg cgcagttctg cctttaagtg     1500
caaatactgt tgaagagaaa gggggaatca ttccaccatg ttcaacaggc gttaagtgt      1560
tattctggtc aactgcaatt ttgttgtagg ttatgtaata aggtgttgga ttaactgtt      1620
taattcggcc ttcctcctgg tgccaggtaa ctttcagata agcatcattt ggtgttaact      1680
tcaggtgagc aggacgaaag aaaaatttta tgcgactacg aacagctagt tgcaaataat      1740
tattattccg ctgctctgag ttatcgaggt ctttttttgc cctgggcttt gctggaatat      1800

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PB324D1.ST25.txt

ccagaacatt tagatagaaa agagattctc ggtcttttcgg tagtgactcg cctgtatata	1860
caattctgac tgtttgcct gatttagagt ccatacgaaa tattggcgga gtaatgataa	1920
aaggacgtgg actgactcag ggggagctgc tgcattctcca tcgycaacca ggactggact	1980
aatgccgaga ttctattgtc attatttnaa cgtatgctaa tactcttttg agtcgccgga	2040
taaacaacac gggttcccat gataactaca ctaccctgaa caactgcaga tacagataga	2100
gtaaaaaaaaa acagcacaaa ccttagcatg gtatctccag aagaaagcag ggcagtat	2160
cctgccccaa aatacaaaac cgtttggtat tcgtaggcga tggataaatt gactgttg	2220
tttacattgc ctggagttga tgtcccggtc gcataatatt gagccatata acgtaatgtg	2280
gcattaccat ccccaaccaat agtttcagaa t	2311

<210> 27

<211> 1118

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (142)..(142)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (228)..(228)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (261)..(261)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (693)..(693)

<223> n equals a, t, g, or c

PB324D1.ST25.txt

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<400> 27
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tctgaactaa aatagcattg tnataagtgt ttgttgccgt tatcgtaacc ttcattgttc    180
ccagattata gggacaccgc atattcacag taaactcttt ttcgtgantt ccattttgac    240
tcagggctctg aatctctaca ncctgccagt caacagttgt gttgcttaca gtacaggcag    300
gaataatcag ttttcctctg aaggtcagat tatcaactgc atgtacatgc tgagacatta    360
acactgcccc cagcattacc ggaagacaca aacctcttat ctttttcatc tgaaatatcc    420
tgtacaaaaa ttttgctaac gatatgtcaa ttcaaactgt gctgttgctt cataatcacc    480
gggtaccaca ctcttcgtcc gcagggcttc cggcgttgcc acaacatacg cgccgaaagg    540
aagctcaaga ctgtttccgg taaccttttc cccctggcct ttgttatggg aggtgccggg    600
tttcagcaga ctgctgccat cggtgtccag cagtgcattg cctaaccggc cagcattcac    660
tccggttacc ttcagatggc ccgggagrcg cyntcttccg tccccttaa ggtcagggtc    720
acaattttgc caactgctgt tgcattggcag ttttcagacc tgatgacaaa cgactctgtc    780
ggcgaacgtc cgggcggata ccagaaatcc ctggacgccc gggttttgaa gacgacatgt    840
ttattcagac tgtcaccgga cacatggcag ggtctgtcaa gcagattacc cctgaatgcc    900
acatctgagg ctattgcctg tccggcagac agtgcggcaa acagtaaaag agcgcctgtg    960
ctttttatca tcacattccc ttactcatat tttatgtcga gacgcagcat ggccggattg   1020
ctcctggcat cagaatactc aacctcctgt ggcggccttt tcctccaggc gggcaagcat   1080
ctcctcctgg cggcgggtaa ggcggggaca gtaaaaaa                            1118

```

<210> 28

<211> 562

<212> DNA

<213> Escherichia coli

```

<400> 28
ttcgtgggtg aaatcgtagg ccgcgctttt ttgctgatcg gccagttgat gaatagggtg    60
gccakgatcg ggataaaacg tacaggcagc gataaacaga cagcccggat agcggttgtt    120
tttaacgcac tccgataacg cctgataacg tgccagcaac ttttgttcgg cggtttgctg    180
ttcgtccagc atcagctgac gacgccagac atctatctgt tggctaagat aacgcagcgc    240
atcgtagagg attgcctctt tgtctggcca gaagcggcgt actcgtccag tggataatcc    300
acacgttcag caaccatctc cagcgtgggtg ttggcaatcc cttgtaattc taataatttc    360
agggcttctc ccagtacatc ttcacgttgc acgtatattt cctccgkctt tcccactgca    420

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PB324D1.ST25.txt

atgttcgktc acggttggcg atcgcgcaaa tgtgcgctgg aaggtttcag catccataaa	480
gcccgtgacg cgtgcttgtg gatgctcctg gccttgggtcc ggtcaaaaaa gagaatttgt	540
ccggtagggc caaggatatt aa	562

<210> 29

<211> 745

<212> DNA

<213> Escherichia coli

<400> 29

ccatcgcttt accccagaaa agttaagcca tataatgtga gggatataag tcgtcgtatc	60
cggtaaagtac agataaccac aacataagct cattcagtaa attttatctc tgaacaaacg	120
actatggcat gctcatttat actattcata agaaagtgtg attatctgta agcattaacc	180
atcaaactcat ataaccatac taaactggcg gatcatcagc accattagca ggtaacttat	240
tgaaatttta ttatgtgttt ttgtgtgata attaatatgc aatatgaatt tgctatttta	300
gaatcatgaa caccatttaa aattaccatc attaacatca tataaaaata tatttttact	360
aaaacatgaa ttgtatatat ttattagctc aggaaaatta tcagggttca ctttcaaatt	420
aacctgaatg ttatgcttaa tttcaccag tagttcttca tgtgtagatt ttattatccc	480
attattataa tcgataaatg cacacatggt ttttatgaat tcaaaacctt ttcctgtata	540
cagtttaatg aatgccacca gagcaaacat ttcaagatgt agccataatg ctacgttagt	600
tttttgcaaa gtataaaaaa ttgaattcgc cactttttta cttattgctc ttttatactg	660
tgatcgagca agattcagta gcggaagtcc tcgttcaata aatgaatgtg aaaagactgg	720
ataaattgat gtcggaaacc tttca	745

<210> 30

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (6)..(6)

<223> n equals a, t, g, or c

<400> 30

PB324D1.ST25.txt

gcgttnatgc atttcgasat tttccacttc gttctgacgt tgcactgctt tggcgtcatc	60
attacgtaac gtatcgagga aatcgaggta gccctgatca acatctttgg tgacgtagac	120
gccgttgaac accgagcatt caaactgctg gatatccgga ttttcagcgc gaacggcgtc	180
gatcagatcg ttcagatcct ggaaaatcaa cccgtcagca ccgatgatct ggcgaatttc	240
atcaacttcg cgaccgtgag cgatcagttc cgtggcgctc ggcatatcaa taccataaaa	300
cgttcgggaa agcgaatttc cggtgccgca gaagcgagggt acacttttctt cgctccggct	360
tcgcgtgccca tctcgataat ctgtcagaag tggtgccacg	400

<210> 31

<211> 824

<212> DNA

<213> Escherichia coli

<400> 31	
tgtcgacgat gaggcagcca gagcattaga gccgaaaaga agggatgatg ccatgactgc	60
tgttgctata aaatgtttca tatattctcc atcagttctt ctggggatct gtgggcagca	120
tatagcgctc atactagggg tttgagggcc aatggaacga aaacgtacgt taaggagata	180
attcgttggt tatatttaaa tttagagctc tcagttcccc ttttaaaata tcctctggca	240
acgtgaatgt ataatggccc aacatattga tatgcccgtg catcagggga gatagccgag	300
cgatatcttc atctataatt tcttcgccat tacggcgcat ccagctcaac gcttcctcca	360
tatagagcgt gttccacaga accactgcat tagtaaccag gcccgagcgc cccagttgat	420
cttcctgccc ttcacgataa cgctttctga tctctccgcg ttgtccgtaa caaatcgcac	480
gagccacagc gtgcgkctct tctcctcgat taagctgcgt caggatccgc cgacgataat	540
cttcatcatc aatataattg aggagatata gcgttttggt tacacgccct acttccataa	600
ttgcctgtgc cagtcctgat gggcgcgagc ttttcagtaa agagcgaatg agttctgacg	660
catgaattgt acccaacttc aggaaccagc ggttcgcatac atctcatccc actgactctc	720
cgcttttgac agatctgcat atcctcgggc caacttatcc agtactccgt agtttgccga	780
tttattcacc cgccagaaca ccgcctcacc tgcatacgga agcc	824

<210> 32

<211> 911

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (841)..(841)

<223> n equals a, t, g, or c

<400> 32

acaaatcaga ccagttaacc agtcagtcgg ttttatgatt tcaactcacta tactttgttt	60
cataaggatt tcaggatctg ccagactgcg cagaaatgat gcttacgaat acacagtaaa	120
ggcaatgtca tttccgatac agagcctgac attgccataa tgagctattt atctgaaaaa	180
cgacagaata tgatgtttta tcgtaacgta attttaagtt ctcaacttat tgagacatat	240
tgtctttttt acccatgtgg tcattttttca tcccatccgt tttgctcatg tgttctttct	300
ccatttttctc tttatccatt gcattttttgc acataccatc cttgcacatt ttatcatgcg	360
cgctggacat gctgcctttt acttcatgtg ttttatccat tgtgtctgct gcctgagcat	420
tgaacatgaa cagcgcggat agtacagttg cagaaataat atttttcatg gttcttcctc	480
atttttaaca attgtatcaa caaccaccaa accagttata accctgggtct tcccagtacc	540
cccccgaaa atgattagtg acctctataa cctgaacatg cttgggggtt ttatatccca	600
gcttagtagg gatacgtatc tttatgggat agccatattc ttttggcaat accctgttat	660
tccatgtcaa tgtcagcaat gtttgtgaat gtagtgctgt cgccatatca atactgggtgt	720
agtaaccatc gacgcaacga aaactgacgt attttgcccg catatcggca ccaatcagcg	780
tcaggaaatg ccggaatggg atccctcccc attttcctat tgcaactccat ccttcaacac	840
ngatatgacg gggttatctga ctcacatgct gcatgttata caattcagac caaaaaccag	900
ttacgggtta t	911

<210> 33

<211> 463

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (27)..(27)

<223> n equals a, t, g, or c

<400> 33
 nggggcagga taattgtatc ctgcccngta tataattctc agcacagggtg ttgactaaag 60
 agcgtgaaac tttgctatta tgtcttcgta agattcacgg acggttatac ttgagcctga 120
 ttctgtgaag taaacaacag cagaagcatc gttgcctttt tcaatgtatg aaacattcca 180
 gtcattggata gccactgcgg gctgaccatt atcccgcagg tgcgtcttaa tgaatcgagg 240
 aagtaattct gcaatatcgt taaaaacacc atttacggta tgagtgtatc caccaacgca 300
 atgtagatga gttgactccg ggggtatcatt gtctgcttct gcaaagagta tagctgtctt 360
 gctaattgta acaggcgcct gtgarcggga taattcgaga gaaataaacc cggattctgc 420
 cataaaaact ccagtttgtg atgttatatc atttcatatg ttt 463

<210> 34

<211> 565

<212> DNA

<213> Escherichia coli

<400> 34
 ttctaaccctc tgaccaaaaa cagaattacg gttgttatgc tgcagaacct aatgacgtgc 60
 aactggcgcg ctattttcat cttgatgaac gggatctggc cttcattaac caacgacggg 120
 gcaaacataa taggctgggc attgcgcttc agctcaccac agcccgtttt ctgggaacat 180
 ttctgacgga tttaactcag gttctgcctg gtgttcaaca ttttgtcgcg gtacagctta 240
 atatccaccg tccagaagtt ctctcccgct atgctgaacg ggacactacc cttagagaac 300
 atactgcatt aattaaggaa tattacggct atcatgaatt tgggtgatttt ccatgggtctt 360
 tccgcctgaa gcgctctgcta tatacccggg cgtggctcag taatgacgac cgggtctgat 420
 gtttgatttt gccactgcat ggttgcttca aaataaggta ttactgcccg gagcaaccac 480
 actagtagct ctcacagtg aaattcgtga aagggcaaat cagcggctgt ggaaaaagct 540
 ggccgcactg ccgaacaaat ggcag 565

<210> 35

<211> 512

<212> DNA

<213> Escherichia coli

<400> 35
 cgatggcgctc cgggggtgaac gccggataag ttttaatttat ccgggtcaggc aaaaggcatt 60

PB324D1.ST25.txt

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aatctgcaga tagctgatgt caggggaaat attgcccggg caggaaaagt aatgcctgca 120
ataccattga cgggtaatga agaagcgctg gattacaccc tcagaattgt gagaaacgga 180
aaaaaacttg aagccggaaa ttatttttgc gtgctgggat tccgggtcga ttatgagtga 240
gtcactccgg tgagatgtcc gggtatttat cttttttgtg aatctggtga tgcgtggaat 300
gaaagacaga ataccttttg cagtcaacaa tattacctgt gtgatattgt tgtctctgtt 360
ttgtaacgca gccagtgccg ttgagtttaa tacagatgta cttgacgcag cggacaagaa 420
aaatattgac ttcacccgtt tttcagaagc cggctatgtt ctgccggggg caatatcttc 480
tgggatgtgg aattgttaac ggggccaaag ta 512

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<210> 36

<211> 827

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (361)..(361)

<223> n equals a, t, g, or c

<400> 36

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ttgccggtgc gggtantagt ggcagtgggtg tcttttggtg taaatgctgc tccaactatt 60
ccacaggggc agggtaaagt aacttttaac ggaactgttg ttgatgctcc atgcagcatt 120
tctcagaaat cagctgatca gtctattgat tttggacagc tttcaaaaag cttccttgag 180
gcaggagggtg tatccaaacc aatggactta gatattgaat tggttaattg tgatattact 240
gccttttaaag gtggtaatgg cgccaaaaaa gggactgtta agctggcttt tactggccccg 300
atagttaatg gacattctga tgagctagat acaaatgggtg gtacgggcac agctatcgta 360
nttcagggggg caggtaaaaa cgttgtcttc gatggctccg aagtgatgct aataccctga 420
aagatgggtga aaacgtgctg cattatactg ctgttggtta gaagtcgtca gccgttggtg 480
ccgctgttac tgaagggtgcc ttctcagcag ttgcgaattt caacctgact tatcagtaat 540

```

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actgataatc cggtcggtaa acagcggaaa tattccgctg tttattttctc agggatattta 600
tcatgagact gcgattctct gttccacttt tcttttttgg ctgtgtgttt gttcatggtg 660
tttttgccgg tccgtttcct ccgcccggca tgtcccttcc tgaatactgg ggagaagagc 720
acgtatggtg ggacggcagg gctgcttttc atggtgaggt tgtcagacct gcctgtactc 780
tggcgatgga agacgcctgg cagattattg atatggggga atacccc 827

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<210> 37

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (238)..(238)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (364)..(364)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (384)..(384)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (398)..(398)

<223> n equals a, t, g, or c

<400> 37

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ccagggggccc aaaatccgtg tatccacctt taaagaaggc aaagttttcc tcaatattgg 60
ggataaattc ctgctcgacg ccaacctggg taaagggtgaa ggcgacaaag aaaaagtcgg 120
tatcgactac aaaggcctgc ctgctgacgt cgtgcctggt gacatcctgc tgctggacga 180

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PB324D1.ST25.txt

tggtcgcgtc cagttaaaag tactggaagt tcagggcatg aaagtgttca ccgaagtnac	240
cgtcggtggt cccctctcca acaataaaag tatcaacaaa cttggcggcg gtttgtcggc	300
tgaagcgctg accgaaaaag acaaagcaga cattaagact gcggcggtga ttggcgtaga	360
ttanctggct gtctccttcc cacnctgtgg cgaagatntg	400

<210> 38

<211> 578

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (106)..(106)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (501)..(501)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (549)..(549)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (556)..(556)

<223> n equals a, t, g, or c

<400> 38

ccgatttttt gcgaaacgtt ccgcctggca tcaggatagt ttgttcgtta tccagttcgg	60
atagcgcatt gacgatatgc aggctgttgg tcatcaccgt gatgtnatta aagcgcgaga	120
gcaggggaac catctgcaaa acggtactgc cagcatcaag aatgatcgaa tcgccatcat	180

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ggataaaact aacggcagct tctgcaatca gctcttttctt gtgggtgttg atgagtgttt 240
tatgatcgat aggcggatcg gattcctctt tattcaacac cactccgcca taagtacgaa 300
tgacgggttcc ggcatgttcc agaatgacca gatcttttgcg aatggktgtg cctgtggtgt 360
caaatatgtc gccattcttc aaccgagcat ttaccctgct ttgcagatac tccagaatgg 420
cggcctgacg ctgacgagtt tcatgggcgt gatacctgat ttaggttcaa atgataactc 480
gcaagcagta acatcacacg naatatccac gttcagttaa gcgccatgat agagcatccg 540
tgatagggnc aggggnagtc acacggcgta atcaccgc 578

```

<210> 39

<211> 399

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (380)..(380)

<223> n equals a, t, g, or c

<400> 39

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tgttagggtca gggccacag tcaagcttag gttttactga atatacctca aatgttaaca 60
gtgcasatgc agcaagcaga cgacactttc tggtagttat aaaagtgcrc gtaaaatata 120
tcaccaataa taatgtttca tatgttaatc attgggcaat tcctgatgaa gccccggttg 180
aagtactggc tgtggttgac aggmgttta attttctga gccatcaacg cctcctgata 240
tatcaaccat acgtaaattg ttatctctac gatattttta agaaagtatc gaaagcacct 300
ccaaatctaa ctttcagaaa ttaagtcgcg gtaaatattg gatgtgctta aaggacgggg 360
aagatttcat cgacacgtcn gcgtgcaatc tatccgtat 399

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<210> 40

<211> 327

<212> DNA

<213> Escherichia coli

<400> 40

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cagcctccgt taccggacag caaggaggct gaatggagtt tacaggattt gcttttttat 60
aatgtctggc catgcagtma aaccggacag gttttattat catgtgaggt attctgacat 120
aaaatgctgg atttttattt tgtgacgaat gctgcaaaat tgcattctgca ctctgatgta 180

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PB324D1.ST25.txt

gcttttatct gtttcagtga agcatgccca caaactgagt tattaagttg tggaagaaca	240
gttttgtccc gcctgcatat ctcctttcaa aaaccagtat gtcgccatgc ctcgccttaa	300
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<210> 41

<211> 314

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (72)..(72)

<223> n equals a, t, g, or c

<400> 41	
ggagatgggc atggaactca cttcataata atgcctaccg aagaaatatt aatagatgac	60
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ttaggtttta caaacacaat gtacagtgat tcaaaccctc ctattatagc tcgttttaga	180
gactatctgg aagatggtga gtgcattgac agaattagcg aatcaatttt ttttacaccg	240
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<210> 42

<211> 590

<212> DNA

<213> Escherichia coli

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<221> misc_feature

<222> (44)..(44)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (58)..(58)

<223> n equals a, t, g, or c

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<221> misc_feature

<222> (142)..(142)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (145)..(145)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (491)..(492)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (584)..(584)

<223> n equals a, t, g, or c

<400> 42

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gccaccgcgc cagcacctac gngcncgcgc agctgggtgta attgcgccag acccagacgc	180
tccgggtttt cgataatcat cagactggcg ttaggcacat caacgccgac ttcaataacg	240
gttgtggcaa ccagcaggtg tagctcacct tgtttaaacg acgccatcac cgcctgtttc	300
tcggcagggtt tcatccgccc gtgtaccagg ccaacgttca actctggtag cgccagtttc	360
aactcttccc aggtagtccc gmcgcctgcg cttccagcaa ttccgactct tcaatcaacg	420
tacaaaccca gtatgcctga cgaccttcag ttatgcaggc gtgggtgcacc ggggtgcaatg	480
gatgtcggta nngcgggtat caggaatagc gaccgtagtc actgggcgtg cggcctgggc	540
ggcactccat ctatcaccga gggatatcgag atcgggcata cgcntgcatt	590

<210> 43

<211> 400

<212> DNA

<213> Escherichia coli

<400> 43

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gacgaaaggg cctcgtgata cgcctatatt tatagggttaa tgtcatgata ataatgggtt    60
cttagacgtc aggtggcact tttcggggaa atgtgcgcgg aaccctatt tgtttatatt    120
tctaaataca ttcaaataatg tatccgctca tgagacaata accctggata aatgcttcaa    180
taatattgaa aaaggaagag tatgagtatt caacatttcc gtgtcgccct tattcccttt    240
tttgcgccat tttgccttgc ctgtttttgc tcaccagaa acgctgggtga aagtaaaaga    300
tgctgaagat cagttgggtg cacgagtggg ttacatcgaa ctgggatctg caacagcggg    360
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<210> 44

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (20)..(20)

<223> n equals a, t, g, or c

<400> 44

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attcggaag atgcttctan tttttttaag cacgtataaa ctgttaattc aggttcaatg    60
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agatcttcaa gtctggccat ggaaattgac ttggctgcat attctagggtc agtgtttatg    180
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tcatccgctg tgcattctat ccaaactcgt tgatctttct caatatctag cttaaagtgt    360
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```

<210> 45

<211> 585

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (25)..(25)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (178)..(178)

<223> n equals a, t, g, or c

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<400> 45
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tcgtttcaga tataaattct ggaggacggt tacgtcttct ttctatttat actggtgnac      180
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ttgttattag taaagacggt tatgaaaaag atcttcctaa tgtgttaata aaaaaattca      360
ctaaccttac agctggggtg ctatccaacg ccgcactctc ttgcatttct gaaataagag      420
awaaaaccca tgggatatta acaaaatata ataataaatt agacactgca tatgtttccc      480
acatcttaaa ttaataaaaa tccaaggrgt caagggcata tgcttatgaa aatgctcatg      540
attatgcagt agatttaatt tctgaagaaa taagatcaat attgc                        585

```

<210> 46

<211> 390

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (2)..(2)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (195)..(195)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (198)..(198)

<223> n equals a, t, g, or c

<400> 46

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aaccacgctg gaagttgacg atccggcgat ggtagcaaag cagatggaac tgggtgctgga 120

aggctgttta agccgaatgc tgggtgaatcg tagccaggcg gatgtcgaca ccgcacatcg 180

gctggcggaa gatantcntt gcgttcgccc gctgccgtca ggggtggtgca ctgacctgac 240

agaaacacag aaaagaagcg atttgccgca atcttaagca gttgaatcgc ttttactgaa 300

attaggttga cgagatgtgc agattacggt ttaatgcgcc ccggtgcccg gatagctcag 360

tcgtagagca ggggattgaa aatccgttgt 390

<210> 47

<211> 473

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (437)..(437)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (465)..(465)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (468)..(468)

<223> n equals a, t, g, or c

<400> 47
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 ctgcgcaata acagtcggga aaaattagtc ggtgtaagaa agacgccgcg tattcctgcc 120
 gttccgctca cggaacttaa ccgcgagcag aagtggcaga tgatgttgtc aaagagtatg 180
 cgtcgttaat tttatctcgt tgataccggg cgtcctgctt gccagatgcg atgttgtagc 240
 atcttatcca gcaaccaggt cgcacccggc aagatcaccg tttaggcgtc acatccgtcg 300
 tcccctggca aacggggggcg attttcctcc atttgcctca gtggctggcg tttcatgtaa 360
 cgatacatga cagcgcccgga caagatcctg atactctttg ggtattcaac cgtttccagt 420
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<210> 48

<211> 482

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (48)..(48)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (87)..(87)

<223> n equals a, t, g, or c

<400> 48
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 gcctataaag tcgcgccgtt cctcggnaaa aaagaggaga gcgttgaaga cctcaaattg 120
 ccgggctggc tgaacatttt ccacgacaac atcgtctcca cgcgattgtg atgaccatct 180
 tctttggtgc cattctgctc tcttcggtat cgacaccgtg cagcgatggc aggcaaagtg 240
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cgccgtgggtc tggggcttta tgtggggcac catcggtcag ctgattgcgg ttggcatcct	480
ag	482

<210> 49

<211> 185

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (168)..(168)

<223> n equals a, t, g, or c

<400> 49	
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aaaccctggc gttacccaac ttaatcgsct tgcagcacat ccccttttcg ccagctggcg	120
taatagcgaa gagggccgca ccgatcgccc ttcccaacag ttgcgcanct gaatggcgaa	180
tggcg	185

<210> 50

<211> 491

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (472)..(472)

<223> n equals a, t, g, or c

<400> 50	
taacgcttca atacgcgcga ccagctggcg gcgctcatatc ggcgtaattt tggcgtcggc	60
gagcaaaatc ccttggttaa aggtattttg ccagctgccg tcgtcatatt ggcgagcttg	120
ctgacgcgac tgcgcaggca ttaaagatc agcacaatcc atcgcccgca gccagtaaag	180

cggattgggtt tcggttgatt taccttgag cgcccagatg tcgctacatt cagtagaaag 240
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 attgtgattc tgcacgcaac ccagcaatgc cagacatgga gaccctgcca gccacagccg 360
 tcggggcaat aatcggtgaa aaatgtgtcg catattcacc agacttaaag cctatcccag 420
 tgggcgtaat tggtgcagac agtctggaca tggacagcgc ggagaaaccg gnagcgta 480
 tatcgtagct g 491

<210> 51

<211> 106

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (105)..(105)

<223> n equals a, t, g, or c

<400> 51
 acttgaacgg caattattat ttatccatgc aacttcaagt tgcagtatcg gaacattaac 60
 ttttctgggg tgaatatcac tctgatatcg ttttttgtat gcgtnt 106

<210> 52

<211> 481

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (439)..(439)

<223> n equals a, t, g, or c

<400> 52
 tttatgtgcg gtattgatgg ctgaagcctg taatatcgga ctggaaccgc tgataaagca 60
 caatatacca gactgaccc gccatcggct cagttgggtg aaacagaatt accttcgtgc 120
 agaaacgctg gtcacgcca atgccgcct ggttgatttt cagtcacac tggagcttgc 180
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ttgaaatcat gacagacant gcgggtagca gcgatattat tttcggctctg ttctggctac	480
t	481

<210> 53

<211> 558

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (4)..(4)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (69)..(69)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (456)..(456)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (462)..(462)

<223> n equals a, t, g, or c

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<400> 53
tggnccgtaa ttcccaacca ttgcccagg tccagntttt tcaccatggt actcgggata 60
gccaaaacng ataccgatgt tgccgccgtc ccggtgagag gatcgcggtg ttgataccga 120
tcagttcgcc gttcagggtta accagcgcac caccggagtt accacgggtg atcgctgcat 180
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gacgacatag cctttatcgg catcaatgat gacgccggaa cccagcgcca tgaattctgt 540
tgctggccgc caccatta 558

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<210> 54

<211> 263

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (37)..(37)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (180)..(180)

<223> n equals a, t, g, or c

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<400> 54
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tgaccgtatt cgccgcattc cggaagatcg caaaaagaaa aaacggcaaa cgtcaaccgn 180
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cgaacgacgg accaaaaggg atc 263

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<210> 55
 <211> 683
 <212> DNA
 <213> Escherichia coli

<220>
 <221> misc_feature
 <222> (517)..(517)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (600)..(600)
 <223> n equals a, t, g, or c

<400> 55
 gtaacgcgctc tggaagatgg cctgccagtg ggcgctcgctc atgtgggtcga ggggctggac 60
 ggttgccatt ccgccaatat ctcaccggac aaccgtacgc tgtgggttcc ggcattaaag 120
 caggatcgca tttgcctggt tacggtcagc gatgatggtc atctcgtaggc gcaggaccct 180
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 gttaacgcac actaaccgct gat 683

<210> 56
 <211> 282
 <212> DNA
 <213> Escherichia coli

<220>

<221> misc_feature

<222> (231)..(231)

<223> n equals a, t, g, or c

<400> 56

tg gatgcagg gaaaaacatt gatattaccg gggcaacgtg ctcgtccggt ggagaccttg	60
gaatgtctgc gggtaatrac atcaacattg ccgtaaacct gataagcggg aaaaagtca	120
gtccggtttc tggcacactg atgacaacag ttcattcatcc accacctcac agggcagcag	180
catcagcgcc ggcgataacc tgggcgatgg ctgcaggcag agatkctggg ntgtcacagc	240
atcctctgtt tctgccgggc acagcgccct gctttctgca gt	282

<210> 57

<211> 697

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (696)..(696)

<223> n equals a, t, g, or c

<400> 57

atgaacggcc cccccacag cccgttaaca aacggntgcc ccggcgataa tcgtactgat	60
aagttaactc cagcaggcgg ttaattgaaa gcgaacggga ggctgatgca tggtaataat	120
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cagccagccg ccgtccagtg cagtcactgc acggactgtc cccacatatg gcagggagaa	360
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<210> 58

<211> 4835

<212> DNA

<213> Escherichia coli

<400> 58

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aagtttg	cggttgacgt	tggctatata	agccatttcc	aatgcatagt	tctttggttt	180
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<210> 59

<211> 1746

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a, t, g, or c

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<222> (35)..(35)

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<220>

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<222> (877)..(877)

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<220>

<221> misc_feature

<222> (1746)..(1746)

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<211> 723

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (473)..(473)

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<220>

<221> misc_feature

<222> (636)..(636)

<223> n equals a, t, g, or c

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<211> 2556

<212> DNA

<213> Escherichia coli

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PB324D1.ST25.txt

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<211> 790

<212> DNA

<213> Escherichia coli

<220>

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<220>

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<222> (29)..(29)

<223> n equals a, t, g, or c

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<222> (57)..(57)

<223> n equals a, t, g, or c

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<222> (765)..(765)

<223> n equals a, t, g, or c

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<210> 63

<211> 10906
<212> DNA
<213> Escherichia coli

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<223> n equals a, t, g, or c

<220>
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<222> (4922)..(4922)
<223> n equals a, t, g, or c

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<222> (6875)..(6875)
<223> n equals a, t, g, or c

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<222> (8094)..(8094)
<223> n equals a, t, g, or c

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<222> (10800)..(10800)
<223> n equals a, t, g, or c

<220>
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<222> (10849)..(10849)
<223> n equals a, t, g, or c

PB324D1.ST25.txt

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<211> 824

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (687)..(687)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (807)..(807)

<223> n equals a, t, g, or c

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<210> 77

<211> 550

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (2)..(2)

<223> n equals a, t, g, or c

<400> 77

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<210> 78

<211> 382

<212> DNA

<213> Escherichia coli

<400> 78

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tcacttccag aagtgcctgc tcaacgtctt tcgccatgcg attagcgtcg ccgcagacat	180
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<212> DNA

<213> Escherichia coli

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<222> (1528)..(1528)

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<222> (2618)..(2618)

<223> n equals a, t, g, or c

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<213> Escherichia coli

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ttgctgggca aaagatagct catcagattg cacttgagca tgtgcaagct gcttttccat    780
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ctgctgttct accaatagct gccgttcagc ctgaatgtca tcttgttgtg tagacaactg    900
acgttttaac tgggaattct cccaactctc gctacaagat ttncctaaac gacaaaagat    960
gtcttggaact tgtntgggtt acacgagcat tttctgagga ttttatacca atn        1013

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<210> 90

<211> 689

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (643)..(643)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (650)..(650)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (658)..(658)

<223> n equals a, t, g, or c

<400> 90

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ttacatgaaa tgctgcgtcc ggggcgcaaa ctggcctcgc tgctggtgtc gcgtatcaag    120
gtgatggcgc ggctggacat tgccgaaaag cgcgtgccgc agsatggacg tattgcgctg    180
ttgctgggcg gccgggcat tgacgtgcgt gtatcaacca tgccttccgc ctggggggaa    240
cgggtggtgc tgcgactgct ggacaaaaac caggctcgcc tgacgctgga gcgtctgggt    300
ttaagtctcg aactgactgc gcagttgcgc cactgttaca caaacgcac ggcatttttc    360

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PB324D1.ST25.txt

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ggatcgggtca gacgcagggtt aacacccgcg tcggcatgac attcgcccgt ggctgcgcg	540
caattttgcg tcaggacccg gatgtggtga tggtcsgtga aatccgcgat accgaaaccg	600
cagaaatcgc tgttcaggct tcaactggac cggacacctg ggnactttcn acgctggnat	660
accaaaaaaa aggggtgggg ggattatac	689

<210> 91

<211> 1281

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (46)..(46)

<223> n equals a, t, g, or c

<400> 91

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cgcattcagc cgctgttcaa attcggcctc gtcgatttgc ctcagcgtaa agggcgcggt	120
cagcccccggt tgcagctcct gcaaaacaga gagcgacaac ggatgcacat ggaggatctc	180
cagcgacgct tcgcaccatg ccaccaggct aaaccgacgg ctgaaactat agggcagacg	240
cacggtgtta gcggtggttt cctgtgctac aggcaccatt aacgcgttct cccggcatta	300
aggaacgcac gaacttctgg cggtaaaggc tgattttgcg caggcaatat cgctgcgag	360
tgtgcggcat caggcttaag ccctgctcat cgcggtagat ttgctcggcg cgcatgtagt	420
tatattttgcg ctgcgacaca ccgtctgccg ccataccgtc acgcagaatg gtcgggcgga	480
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tcaacgggat atcgcccagc agcggcactt ctcgccacgc tttctcccgc ctggtcgtcc	600
atcagaccgc caagcacaat tagctacca tcgttagcca acacggtggt tttcagtttg	660
cgctcaccaa acaccacgtc gaggctggtc tgtccttcca ctttcgacac ttcctgctca	720
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acttttttcc tctctaccgt gttgaaagga ttgctgttat tggagccaac ggtagatcca	840
gttaataaccg gaacgtcctg gccaccatg aagaaggctt cctggttgtc cagcgtggtg	900
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aattgataat tcaccttcgg caacttcac gatcaacgcc tcgacatgta cctgagcacg 1260
gcgaatatcc agttgttcaa t 1281

<210> 92

<211> 421

<212> DNA

<213> Escherichia coli

<400> 92
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agagcagcct tcccgtata ttgactcacg gcgtcactcg ttcgtgccgg aataaaatgg 180
tacgaaaatc gtgtcggtaa acattatctt ttaacccaat aatcatttaa atcgagcca 240
gaaagttatt cgcttttaac tgaattatat ttataacgga gaacattatg gtttggtctg 300
aaattatcgt agtacttggg gcaatakttt ttggtattcg ccagggggga atcggtattg 360
gtttatgtgg cgggcttggg cttgccattc tgactctggg acttgggtctg cctatggggg 420
g 421

<210> 93

<211> 1018

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (781)..(781)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (990)..(990)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (993)..(993)

<223> n equals a, t, g, or c

<400> 93

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tttcctttca atgggtcaaa gacttgcttc tggaattcat ccggtttttt ctccagacgt    120
tttccttctt cataatagtc aatataactt ttaccactga gtgttttgkc yccattttctg    180
gtgacaccag ctaactcacc tatcagcgta tcccmatggt gctgggtaat gaggactgat    240
ctttcaacag aatactcttt attatactga gataatatatt taaagttatc ttctaataaat    300
gcagcatggc gggcatcata tcccattttc aaagtaattt ttgccgtggt ttttctccca    360
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ctcaaggatg cctgaaatta tccccgtaac agcccctacc agcgcgctta ccggtgcacc    480
aaccagagat gtcgttgtag cagcactaat acctgaagat actgaagcca gaacagtgtc    540
tatcgttggt aacgatgcat caatagctcc tgtttctttg tggaaagcag caagtaaact    600
gtcaccatcg tatccaagtt ttttgaatcg ttgtgaatac tcctctatct tattggcacg    660
tttaaactta tcggcaatgg acaggaatga gaggggacta attgccagtg tcacaacaga    720
agcaattaaa ccggcagcag cagcagatgt agataacccc tgtgctgcac gctgtgcgay    780
naatatattg agaaatacct tttccaacat taccagtagt tttcgttggt aattcaacac    840
ctgctgcagc tttagtccg gtatctgcat ctgcattgct cagaatgaaa cttgctgaaa    900
tcgcagataa aatacccgat acagtatcta accctgcacc gatattatca aggttaggta    960
aattctgtaa cttattacca acaccgttcn ggnctggttg tattgggata atacactt   1018

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<210> 94

<211> 400

<212> DNA

<213> Escherichia coli

<400> 94

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ggcaatgttc aaatcgatat tgtgcagcac ctgggttggg ccaaagtgtc tggagacgtt    60
tttaaattca atcacaggat tttcatcctt ctttccagac gacgcagaat aaagctcagc    120
accagggtaa taatcagata gaacaccgcc acggcgctcc agatctcaag ggcgcggaag    180

```

ttaccggcaa taatttcttg cccctgacgg gtcagttccg ccacgccgat cacaataaac	240
agcgagggtgt ctttaatgct gatgatccac tggttaccca gcggcggcag catacgacgc	300
gtgccagcgg taaaatgacg tagcgaatgg tttcccmacg tgaaagaccg agcgccagtc	360
ctgcttcacg aaaacctttg tggatagaca gcaccgcacc	400

<210> 95

<211> 1857

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1465)..(1465)

<223> n equals a, t, g, or c

<400> 95

cgtgttcccc tggcngcctt ggtttcgcca tagacgttga gcgggggaaat cacatcggtt	60
tccacccaag gacgttcacc acttccatcg aaaacatagt cggtggaata atgtactagc	120
cacgcaccta atgcttcagc ttctttggca ataaccgcca cactagttgc attgagtaac	180
tcggcaaatt cccgctcact ctccgctttg tcgactgcag tatgggccgc tgcgttaaca	240
atcacatccg gcttgacgag acgtaccgtt tcagccaccc ctgcagaatt gctaaaatca	300
ccgcaatagt cggtggagtc aaaatcaacg gcagtgatgt gccccagagg cgccaatgca	360
cgctgcagct cccatcctac ctgaccattt ttgccaaaca acagaatatg catcaggtag	420
gctccctata gttttgttca atccaggatt ggtaggcacc actcttgacg ttgttaatcc	480
attgttgatt atccagatac cactgcacgg tcttgcaat accagactca aaagtctcct	540
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gtccggggcg atccgccaca taagtaattt gatcgcgata agagccagct ttcggtacca	660
tctcgtcaag cagatcacao atagtatgta ctacatccag gttctgcttc tcgttgtagc	720
cgcctatggt ataagtctcc ccgaccaagc cagtggtcac tacctttag agtgctcgtg	780
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 aagtattttg ataagaatac ctataccaca gggagcccc tgaaacataa tattagcgaa 1800
 gaatgataac tgatagttac catcttagag ataaaaactt atttgtgtgg cgggatg 1857

<210> 96

<211> 1128

<212> DNA

<213> Escherichia coli

<400> 96

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 gagactctga aaatatggac atatataacc tcttttatta tgaaatattt tcaataataa 180
 taatccgtta gtaatcctat catagggtaa tgtctcatca tgttaaaatg atcacattta 240
 taatcatgtc aaaaagaaca acagaaaaaa tcatataaaa tcaattaaat ataattgcca 300
 catattgttg ttattwaaac attggtgggtg aatttaaagc gagaacagtt tgtaacagtg 360
 actccttgca gactaagtta gagtctcctt ctaaaattag acggwkttct attgatggat 420
 aatagtaagc gcaccgtgaa kgacgtgggg taaaaattag tttacagatt gagtgacatt 480
 ccagggaac aactctttca cgcggttggc aggccagggtg ttgattacac tgatcacgtg 540
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gcatgcacat cgtggatttt tctccgggca tgggccatac aagccgcttc ggttacctga	1020
ccgctttcgt aaagagcatt gtaaccgca tatgcatcgg cctgcaggat acctctgtag	1080
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<210> 97

<211> 439

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (401)..(401)

<223> n equals a, t, g, or c

<400> 97	
gtttgcttac gaaccgtgaa atatgacggt cccatataac tgcctgatac ttgtatatca	60
tatacttgctg catgcatgtc atcattaaaa agtactttgt caccgtcttt aagttgaaga	120
cgtgtaaaat ctttatacgg caagtagacg gaaaacgggc gctttccctg tcgccaatca	180
caccgacatg actgactttt gcgagaggaa gtgcataatt caccaattca gagcctaattg	240
cattgcgctg ggtaagctca aatcggaatg ggtttcgaac ctttcccgca acattgatca	300
ttggaccttg ttgctcaact gaaaatcaca tcttgatctt ttaatgccag cttcgggagt	360
ttcccatacc gtatgaaatc ataaagatca atttgckgtg nttactgcta ttttgtgcgt	420
gaacacctta atttttgcg	439

<210> 98

<211> 906

<212> DNA

<213> Escherichia coli

PB324D1.ST25.txt

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<400> 98
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tctcggaaaa tgctagcaga catcactgga cagcctaata caacctccac aacaggaagc 780
ttcacacaac agaatcgtaa tgggatgttg cttccaggag agtcagatgt acgaaaatta 840
ctgccgcaat ctgaagcagg cttacctcct ccgtatggtg ctaatttatt tgccggaggc 900
tatgaa 906

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<210> 99

<211> 1395

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1121)..(1121)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1264)..(1264)

<223> n equals a, t, g, or c

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<400> 99
gcggcctgat atatgccgtt attacaaaaa gaggatcaac cacactgcct tttggaccgt 60

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<210> 100

<211> 380

<212> DNA

<213> Escherichia coli

<400> 100

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aaggacggat	accggactct	ttcgccactt	cagcaatcac	cggcagcggtg	gaaaaaacaa	180
taaacccagt	accggccata	atggtcatag	accaggtgat	aatcggcgcg	attatgttga	240
tatatttcgg	gttacgccgc	ataaaattac	cagcgacggg	accagataat	ccattccctt	300

gcggcctgta aggctgaggc cgccacaaca acggtcataa taatcaggat cacgtcgact 360
 ggcggcgacc ccataggcag 380

<210> 101
 <211> 995
 <212> DNA
 <213> Escherichia coli

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n equals a, t, g, or c

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 aaatctgaat ttaatgtgga ctggatatgc tccaataacc ccggcaggga gtcattctgtg 120
 cgaagatatt tgcgttatgc tgtaataata taattcaatg tatttcagga acagtaatat 180
 actacagttt ctacttttctt gtatttaata aattgttccg catcgctaaa agcagggtctt 240
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 tagaaacatc aaaattatgc atctcattaa ttttgtcagt cacacgacct ctggtaaaaa 420
 taaaaccccc agaaatatgc catttctagg gggggcgtaa gaatcaatat atttttagtgt 480
 tgttacattt agctcttagc tcttagctct tagctcttag ctcttagctc ttagcgtttg 540
 tagtttcatc gcaatgagta aaaggacaac aagaataagt gataacgtta agagaagagc 600
 atagaaacca ttccagtggg atatttctat tatttttagac aatggatagc cagccgcgga 660
 cgcaccaaga tatgcgaata aactaacaaa accagtagaa gcaccagatg catatttatg 720
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 agaagcaatg attataccaa ttgtataaat aacattcatt tgagagcgat tgcccttaaa 900

cagaatatct gatcccatc cagctacgat agcaccaaaa aagcctccaa cctcaaacat 960
cattactgtt gcatttgctg ttagcaagtc atatt 995

<210> 102

<211> 817

<212> DNA

<213> Escherichia coli

<400> 102

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ccgttataac tgaactgatg agagtctcct ccctgataat tacgggaaac cgtcccgttg 180
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gtatcaggac gaatatccac tcccggcaac ccatgaaaat ccgcacactg accatcatgc 360
cagtaaacaa ctttatccag agattctgct gttaacccca tcagtctgac catatctgat 420
gtcagacagc tgcggcaatt ttttttctgc cttatctcct gacaacgcag gttcaacaaa 480
tgamatctgt aacgatgcgg gagaaatact ttgcccgtta acaatcacat ccagaagata 540
ttgccccggc agaacatagc cggcttctga aaaacgggtg aagtcaatat ttttcttgtc 600
cgctgcgtca agtacatctg tattaactc aacggcactg gctgcgttac aaaacagaga 660
caacaatatc acacaggtaa tattgttgac tgcaaaagggt attctgtcct tcattccacg 720
catcaccaga ttcacaaaaa agataaataa ccggacatct caccggagtg actcactcat 780
aatcgacccg gaatcccagc acagcaaat aatttcc 817

<210> 103

<211> 709

<212> DNA

<213> Escherichia coli

<400> 103

ttttgtcag agcgttcact ctctggctgg atgatttcgg ctcgggaaat gcaggcttaa 60
tgtggggact gtcggggatg tttgaacggg taaaaataag tcatgagttt tttcattatg 120
tcctgaaaaa cgggtgtgca atgccacttc tccgtgctgt ggcagacact gttgcctgtc 180
acaacagagg cgtgatactc gaagggtgtg aaaatgaagc gttgttccgt attgccagag 240
acatgaatgt ccagggtgtg cagggatggc tctacaggcg tgtgggggtt gatgaattat 300
ccgcgcttat tcagcagtat gaataatcct ttttcacaga ctgggtcagct gtcaacattt 360

PB324D1.ST25.txt

atgttttttt atctgcggga atttatccgt ctgcctgtcg ggactactct gtcatacaga	420
aatcaggcca gaataaattg ttgtggaaag gtgagattta ccggatgact gatgtgctct	480
tgtgcacagg tatacaggca gtgtgtttcc agtatatgga aaatgattaa atgaataaca	540
cagacttatt agaaaaaatc atcaggcatc aacaaaacaa agatcctgca taccctttcc	600
gggaacatct tttgatgcaa ctctgtatcc gtgtaaacaa aaaaatacag aacagtacat	660
ctgagttttt tggtgcatat ggtataaatc actcagtata tatggttct	709

<210> 104

<211> 485

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (477)..(477)

<223> n equals a, t, g, or c

<400> 104	
tcatcaaggg acggggcata tctggatgcg acagggcaaa ccaaccactg agaatccaac	60
ctgccaaagc ctgaccagga agtccgacgt taaagaaacc agctcgactg gcaacggcaa	120
aaccaagacc aatcaagacc agaggacca tagcacggaa gatttctcca atcccacgca	180
gactgccaaa ggctgtatag aacaattctt cgtagcccca aatagcatca taaccgaaga	240
tccacatgac aatggctccg agtaaaattc ctaggaatac agaaatcaag ggaaccgaaa	300
tttgttgtaa ttttttagac atcactcttc tcctttccca agttyccacc agccatcaag	360
acaccaagtt cttgtttatt ggttgtttct ggtgatacaa taccttgaat cttaccatcg	420
tggataacgg caatacggtc tgagacgttt aaaatctcat ccaattcaaa gctgacnaca	480
aggac	485

<210> 105

<211> 459

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (436)..(436)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (449)..(449)

<223> n equals a, t, g, or c

<400> 105

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agcagaatag gcaacatcac cacgccgaca aacagcgaga agagaatgac gccagccgcc      60
aggaacacca gctcatagcg cgccgggaag acgttaccat ccggcaagag cagcgggata      120
gagagcacac cggccagagt gatcgcccca cgcaccccg gaaagacgc gatcaggatt      180
tctcgtgtgg tccacgaacc aaactccatc ggcttcttct tcaggaagcg gttgctgaac      240
tttttcatcg tccacagcca gccgaaacgg accagcatca gcgccgcata tatcagaata      300
atattggtaa acagcatcca gatttcgacg ttagggtcga tttcttgctg gccatcagcg      360
gacgtcttcc agrattaccg ggcagctgca gaccttaaca gcagggaaaca ccatggccgt      420
tttaaggaca atttcnagca tcggcccang tgctgtttt      459

```

<210> 106

<211> 908

<212> DNA

<213> Escherichia coli

<400> 106

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ttaatagcac taatactgtc ctgctctatt ccgctgacat tttcagtcag ctgctgtatg      60
ggatgggtta cccaaaacca gaccagcata cctgacaaga gaccgcatat cactaccaga      120
aacagcgacc agtacagtgc attccatagt gcctttgtcc aggctgtatc agtaagagca      180
ttaagttcct ctccctgtaa aataatatac agatatacct tcggttcata actctggtaa      240
agcgggtcgg tactgaaaac tttttgctta ttacacttc ggggatcatc accatatacg      300
ggccagacac tgccggagag aaattttttc aacggtgcaa tattgatata ccggcgtttg      360
agatgacccg gagggcgggc tccacaagca gtcgcccttc cggtgaaacc atatacagct      420
ccacactggg attaagcgtc atcagacgct caaacagact cggttaatgtc cggtgttacc      480
agacaaaaca agcatcgcaa gacgccacaa acggtgcgct tacttaaata agccgggttac      540
aggtgaaaaa tcacgtcctg atattcaaat gttttttcag gtcatatatt agcaggacac      600
taccagcacc taacagcagc acatctttta taacaaaact gtcaactttc cccagttgtg      660

```

gtaacaggct gagcgtgggtt attcctgtaa caataacgat aatatctccc agtacaccag	720
cagcaggcct gaagaaaccg ataatacatg ccagaaatgt gatagtttcc actatgccga	780
ggaaatagct ccctccatga ataccaaata taatatacag gatattcagc caggtgggat	840
atatcagggg cttgagagcc ataacttcaa aatcaaacca tttataagtc ccaaaaagca	900
taaatatt	908

<210> 107

<211> 1057

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (88)..(88)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1019)..(1019)

<223> n equals a, t, g, or c

<400> 107

cgggctaacc caatatgctt tattaacccg ggataattac cctgttgcat attgtagttg	60
ggctaattta agtttagaaa atgaaatnaa atatcttaat gatgttactt cattagtcgc	120
agaagactgg acttctggtg atcgtaaata gtccattgac tggattgctc ctttcgggga	180
taacggtgcc ctgtacaaat atatgcgaaa aaaattccct gatgaactat tcagagccat	240
caggggtggat cccaaaactc atgttggtta agtatcagaa tttcacggag gtaaaattga	300
taaacagtta gcgaataaaa tttttaaaca atatcaccac gagttaataa ctgaagtaaa	360
aaacaagtca gatttcaatt tttcattaac aggttaagag gtaattaaat gccaacaata	420
accgctgcac aaattaaaag cacactgcag tctgcaaagc aatccgctgc aaataaattg	480
cactcagcag gacaaagcac gaaagatgca ttaaaaaaag cagcagagca aacccgcaat	540
gcggaaaaca gactcathtt acttatccct aaagattata aagggcaggg ttcaagcctt	600
aatgaccttg tcaggacggc agatgaactg ggaattgaag tccagtatga tgaaaagaat	660
ggcacggcaa ttactaaaca ggtattcggc acagcagaga aactcattgg cctcaccgaa	720

cggggagtgga	ctatctttgc	accacaatta	gacaaattac	tgcaaaagta	tcaaaaagcg	780
ggtaataaat	taggcggcag	tgctgaaaat	ataggtgata	acttaggaaa	ggcaggcagt	840
gtactgtcaa	cgtttcaaaa	ttttctgggt	actgcacttt	cctcaatgaa	aatagacgaa	900
ctgataaaga	aacaaaaatc	tggtggcaat	gtcagttctt	ctgaactggg	caaaagcgag	960
tattgagcta	atcaaccaac	tcgtgggaca	cagctggcca	gcctttaata	ataatgttna	1020
actcattttc	tcaacaactc	aataagctgg	ggaagtg			1057

<210> 108

<211> 752

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (714)..(714)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (719)..(719)

<223> n equals a, t, g, or c

<400> 108

taccgggccc	cccctcgagg	tcgacggtat	cgataagctt	gatatcgaat	tcctgcagcc	60
cgggggatcc	actagttcta	gagcggccgc	caccgcggtg	gagctccagc	ttttgttccc	120
tttagtgagg	gttaatttcg	agcttggcgt	aatcatggtc	atagctgttt	cctgtgtgaa	180
attgttatcc	gctcacaatt	ccacacaaca	tacgagccgg	aagcataaag	tgtaaagcct	240
ggggtgccta	atgagtgagc	taactcacat	taattgcgtt	gcgctcactg	cccgccttcc	300
agtcgggaaa	cctgtcgtgc	cagctgcatt	aatgaatcgg	ccaacgcgcg	gggagaggcg	360
gtttgcgtat	tgggcgctct	tccgcttcct	cgctcactga	ctcgctgcgc	tcggtcgttc	420
ggctgcggcg	agcggtatca	gctcactcaa	aggcggtaat	acggttatcc	acagaatcag	480
gggataacgc	aggaaagaac	atgtgagcaa	aaggccagca	aaaggccagg	aaccgtaaaa	540
aggccgcgtt	gctggcgttt	ttccataggc	tccgccccct	gacgagcatc	acaaaaatcg	600
acgctcaagt	cagaggtggc	gaaacccgac	aggactataa	agataaccagg	cgtttccccc	660
tggaagctcc	ctcgtgcgct	ctcctgtttc	cgaccctgcc	gctttaccgg	atanctgtnc	720

ggcttttctcc cttcgggaag cgtggcgctt tc

752

<210> 109

<211> 486

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (11)..(11)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (477)..(477)

<223> n equals a, t, g, or c

<400> 109

cttgggtaat ngacctcata tccctccgcc aaaaaaggat ctacatgcga ttttgcggaag	60
ccagcggttga ttgtaggcga gagaatgggt ctgttggtttt ggtacatttc agttgtcatg	120
gatttcacaa atgtagcatg acctttcacc tgtccaagag actgcaacac catctgtcca	180
aaacaataaa taggaatcaa acaggctacc aacatcaaca agtatcccaa taaggctcgt	240
agtttagtcc ttgacatgac gcccctccaa ttgcttttct agtcctttga caatccgtcg	300
attacgatac acgcgataca gcaagagaag gatgaccgcc atcgctccta gtaataacca	360
caaccagaat tgcccacgct ctctcaccgc tcgattccgc tctgcaattg gtgccgtata	420
cggaatccgc ttcccacgta ccaacagacg atgactgtta atcctatacg gtgtacnagt	480
caacca	486

<210> 110

<211> 313

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (7)..(7)

<223> n equals a, t, g, or c

```

<400> 110
ttacgcnttc aaccaggtct tctggtttac caacgcccac caggtaacgc ggtttgctctg      60
ccggaatttg cgggcataca tgctccagaa tgcggtgcat atctgctttc ggctcaccca      120
cagccagacc gccgacagcg taccatcaaa accgatatct accagacctt taacagaaat      180
atcacgtaaa tcttcgtaaa cgctgccctg gatgatacca aacagcgcat ttttgtttcc      240
gagactgtca aaacgctcac ggctacgtcg cccaacgcag agacatctcc atggagcgtt      300
ttgcgtaatc cca                                     313

```

<210> 111

<211> 1613

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (27)..(27)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (40)..(40)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (168)..(168)

<223> n equals a, t, g, or c

```

<400> 111
cggaaatccc agtaattcca tcctcanata ttccactcan cctcactgta acaaagtttc      60
ttcgaataat aaaaatcatg ctttctgtta tcaacggaaa ggtattttta ttctctgtgt      120
ttgctttatt tgtgaaattt agtgaatttg ctttttgttg gctttatntg atgtgtgtca      180

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PB324D1.ST25.txt

cattttgtgt gttatttttc tgtgaaaaga aagtccgtaa aaatgcattt agacgatctt	240
ttatgctgta aattcaattc accatgatgt ttttatctga gtgcattctt tttgttggtg	300
ttttattcta gtttgatttt gttttgtggg ttaaaagatc gtttaaataca atattttacaa	360
cataaaammc taaatttaac ttattgcgtg aagagtattt ccggggccgga agcatatatc	420
cagggggcccg acagaagggg gaaacatggc gcatcatgaa gtcatcagtc ggtcaggaaa	480
tgcgtttttg ctgaatatac gcgagagcgt actgttgccc ggctctatgt ctgaaatgca	540
ttttttttta ctgataggta tttcttctat tcacagtgcg agggtcattc tggctatgaa	600
ggactatctg gtaggtgggc atcccgtgag gaggtctgag agaaatacca gatgaataat	660
gggtatttca gtacaacact ggggagactt atacggctga atgctcttgc agcaaggctt	720
gcaccttatt atacagatga gtcgtcggca tttgactaaa ttatggcatt ccggagtttc	780
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ataaataacc tgccctgaaa atacgagaat attatttgta ttgatctggt tattaagggt	900
aatcgggtca ttttaattg ccagatatct ctggtgtgtt cagtaatgaa aaagagggtg	960
ttattttatga ttaagtcggt tattgccggt gcggttctat ggagtggtg tcttttggtg	1020
taaatgctgc tccaactatt ccacaggggc agggtaaagt aacttttaac ggaactggtg	1080
ttgatgctcc atgcagcatt tctcagaaat cagctgatca gtctattgat tttggacagc	1140
tttcaaaaag cttccttgag gcaggaggtg tatccaaacc aatggactta gatattgaat	1200
tggttaattg tgatattact gccttttaaag gtggtaatgg cgcaaaaaa gggactgtta	1260
agctggcctt tactggcccc atagttaatg gacattctga tgagctagat acaaagtgtg	1320
gtacgggcac agctatcgta gttcaggggg caggtaaaaa cgttgtcttc gatggctccg	1380
aagtgatgct aataccctga aagatggtga aaacgtgctg cattatactg ctgttggtta	1440
gaagtcgtca gccgttggtg ccgctgttac tgaagggtgcc ttctcagcag ttgcgaattt	1500
caacctgact tatcagtaat actgataatc cggtcggtaa acagcggaaa tattccgctg	1560
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<210> 112

<211> 930

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (26)..(26)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (126)..(126)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (540)..(540)

<223> n equals a, t, g, or c

<400> 112

ntagtccatg gccccatgga gcgaantcca aagtgtggat attgtcgttt taattcatcc	60
caaaagctga aatacgccaa aaccacggtt ccctaacatt ggtatcatgc ataatgacca	120
cagccnttca gaaagctttg gcaaccagct ttcaaaatca tgggtaccgc ttcaaacgta	180
tgcaaaccat caatatgaag cagatcaatg ctaccttggtg aaaaatgctc taacgcttgg	240
tcaaatgtac tgcgaatgag agtagaaaaa cctgaatagt gctgttgatt atattctgat	300
acttgccgtg aaacttcttc gccatacagc cccgcatggt catctcccc ccaggtatca	360
acggcaaagc agcatgtttc taaatctagt ttagagactg cttggcaaaa tgagaaataa	420
gaacttccat aatgagttcc cagctcaaca atatttcttg gccgcagtgt gtcaactaac	480
cagaaagcaa aaggaatgtg ttctagccaa gcagattgtg caaggtatgt aggacaccan	540
aaaagagatg gtttgaaaat gaaattcaat tccctgccaa tatcagtgat gggatataac	600
tcacgattct ctactaactg actaattttt tgactatcca ttgaggaaaa ctacatgta	660
tttatagaat taaatcaaga aacctgaaaa tacctatagt gcggtaactt attaactaac	720
atttaaatat taacaataca cttggaaata ttagttaaaa ataaatcatt atgatttctc	780
atcaatcctg gtgctcacgc aaagttgccg gcccataat aataagacca tagaacaagc	840
aaagtaatac acccacagtc gcaagattat agaatcgccg tggatattcg gcatcttccg	900
ctaaagttgg ttgggtaata accaatagat	930

<210> 113

<211> 659

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (238)..(239)

<223> n equals a, t, g, or c

<400> 113

```

acgatatccc ccctctgctt ttgagaggca atctgcttta atacatgatt catcacaaca      60
cctcttgctg cgctttgatc ttaattttat atttttgggt agggaaaagt aattgcccct      120
gatacggctc accatttacc aacgtttcac agctatgttc cagagctaaa ttaagacctg      180
gtagaatatc ccagcaattc acccctttga cattttcaaa gctgtcataa gcaccgggna      240
aggggggggcc aacatgttat acatggagca gccaatgata cgatattcaa agccctcttc      300
cagttgcatc agatcctgct tggtaasgga ggaagagagg ccacgaatac gagagcgatg      360
atgtgtaatc ggcatacctg tgatatgaag atcattcaat tcaggtaga agatgcagga      420
ctcttgatgt ttcccctcgg tgtaaatgct gataccaatg cccactctt tgagcccaga      480
gacaaagttt tctgtgccat caattggatc tagaacaatg taagaacctt tgggattcca      540
ctcaatatct cctaaagggg ctaattcctc tgaaattagc acatgccctg gtagatgctt      600
tctacagagt tcgaaaacta tatcttgaac ttttagatcc agtactgcgg ccgcatcc      659

```

<210> 114

<211> 556

<212> DNA

<213> Escherichia coli

<400> 114

```

cccggatata catcaggaga aattggagca gcaattggat gcgccattaa tgcctgggta      60
gggatccccg catgtgggca cgcaaatggc tcagaatatg atcgaccttc accagataaa      120
ccaaatctga gcgaaccatt tatcccaaga cccacgtatg acgcttctact tcattcctgg      180
catggcggat actgagtaaa tcatcctgaa tcattatggt caacatcatc aattctccgg      240
acttgttgtc agatgtccgg agaataataa ctttttcttc agaaacagaw tgatcaagaa      300
tcacactcct tctttaagag gattttatcc agaaaactga ctttcttcta tcaaaatmac      360

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agtatcctgt tttatcagga ataatcttta cctccggat cattcccata atcagatatc 420
 agaaaaatgt gccagtaatt ttttactgat gacttcaaac atttcacatt catcacacgt 480
 cagattactc caaagttctt tcagatatgt gttctgcgcc agagtgagtc tctgaataaa 540
 aaacatacct tcagac 556

<210> 115

<211> 503

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (60)..(60)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (65)..(65)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (90)..(90)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (460)..(460)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (496)..(496)

<223> n equals a, t, g, or c

```

<400> 115
tacctgtttg tggaatttga cccagaagtg attcatacca cgactatcaa cgcgacccgn      60
gtgtncagcc acttcgtgcg ctttggcgtn cgcagcgata gtcccatcgg cggttattca      120
tcagctatcg gtatataaac cgaaagacat tgtcgattcc ggcaaccctt tatccgggtg      180
ataaggtgat tattaccgaa gcgcgttcga aggctttcag gccattttca ccgaaccgga      240
tggtgaggct cgctccatgc tattgcttaa tcttattaat aaagagatta agcacagtgt      300
gaagaatacc gagttccgca aactctaaaa cgcaatccca aacagtgttt tgacattagc      360
atccgtggtg gcagccagcc atgcggcatc ttctccacgc cagtgcgcaa tacgttgcaa      420
aatatggggc agatgggctg gctcgttgcg ccgggatgan ggctttggcg tgagatcgcg      480
agggagcaga tacggngcat cag                                              503

```

```

<210> 116
<211> 433
<212> DNA
<213> Escherichia coli

```

```

<220>
<221> misc_feature
<222> (138)..(138)
<223> n equals a, t, g, or c

```

```

<400> 116
tttaacatca aaattacctg cagctgaaat gattttgctg atttcattaa ttaatggatt      60
aagattaccc tgacttccat aggctaatgc atcattccca tacacataac ttgccttatt      120
attactctgt tgatactnaa gtgccttttt aagggaaatct ggtgtgatta ccctgccgtc      180
tttatcaaaa atctgctcta tctggtgatt agagatatca cctgactctt tttcaaacca      240
gttttttaaat gtaataccat ttttgtggcc aatggaaaga acattacctt cagctttata      300
catgatgagg tcattacctt ctcgcctgaa ggccacatcc cggaaatcaa tatcagccaa      360
actgagttta tcgtctttcc ccccatcatc gtcaataata tgatggccat atcctgaaag      420
ataacgataa ata                                                         433

```

```

<210> 117
<211> 302
<212> DNA
<213> Escherichia coli

```

<220>

<221> misc_feature

<222> (280)..(280)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (299)..(299)

<223> n equals a, t, g, or c

```

<400> 117
gcgctctgtt cccgttcctg ttcatcacca tcgcctgtgg tgcggtatct ggcttccacg      60
cgctgatctc ttccggtacg acgccaaaac tgctggctaa tgaaaccgac gcgcggtttca      120
tcggctacgg cgcaatgctg atggagtcct tcgtggcgat tatggcgctg gttgctgcgt      180
ccatcatcga accgggtctt tacttcgcga tgaacacccc gcctgctggc cttggcatca      240
ccatgcctaa cctgcatgaa atgggggtggc gagaacgcgn cggattcatc atggcgcant      300
ga                                                                    302

```

<210> 118

<211> 656

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (628)..(628)

<223> n equals a, t, g, or c

```

<400> 118
aattaataag ccaaatacta catcacgtaa tacttgcaaa gaagtgcgtg gagtttgact      60
aataatgggt ttgtccatta atacttaccc aaataatcgg ctcatatag caacgagcct      120
ccgattaaaa tttaaatac tcaatcattt aatagcaacg ttagcagcta cagcgatttg      180
ataaataatt tgtgtgatat ctttaaataa ttgcatgggt ttgctatcaa cctgaggtag      240
aaccaatatc tgatcccccg gttgtacttt accttgccct ttaaattcta caagaccatt      300

```

PB324D1.ST25.txt

tgcatgtaca atagcaattc gcttgtcggt agctcgctca gtaaaacctc cggcccatgc	360
aacataatca tccaaattag catcggcatt atatactact gcttgtggca tcaacacttc	420
acccccact tgaataagat cagtcttatt tggaataact atttgatcgc cttgttctaa	480
ttggatawtg gcaataacac ctttatctgc aactactact ttaccaagcg gtkgaacttt	540
acgagccttt ycaacaaact gcatactaa ctctgcttct ttagcacgta tattcgcttc	600
accatcagat cgcgcgggtg tggtaaantt catacgttcc aagcggttta gagatt	656

<210> 119

<211> 436

<212> DNA

<213> Escherichia coli

<400> 119	
atatgttatc tggatccaga taaagagcgt tcttgacccg ctatatccag acaggtcagt	60
tacaccctgt ccggaaaaac tgatcggaat aacaacagta tattttctaa tacactggca	120
aatggtgccg gcggtgtggg gattcagctt ctggatagcg ctggtaatgc ggttgctgct	180
ggacagaaga aatatctggg acaggtagga ccatcaacat ctctcaatat tggattaagg	240
gcattttatg cactgaccaa tggacagact ccacctactc ccggacgagt tcaggcggtta	300
gttgatgtta ccttcgagta taattaggaa tgtcggggat gggctatccc cgatattatt	360
gcaggattag tctgtgatac agatatacag cccatatgaa caactgtttg catatataaa	420
aatgatgata atttta	436

<210> 120

<211> 559

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (463)..(463)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (499)..(499)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (552)..(552)

<223> n equals a, t, g, or c

```

<400> 120
aataattaaa tttggaggga tcagttttct gataatgttc tgttattaaa acattatccc      60
atggggcgta gttatatcaa ttagcaggat cttatgagtt aactaacatc agttttgaat      120
ttttaatggg ggtaatttat cttttactaa aaatatTTTta actattaata tagcatcatg      180
gttgttacgg tttgttttaa ttctatttta taatgtgcta tatattgtat ttttgtgctt      240
agataaatat gttttttcat tacttttagtg atgttaatat tttgcgtgta gtaaaaatca      300
ttgttataac aaatgtcact gttgctatac tttgctgaac tgtttatcgg tcattttgat      360
tcaatcactg gttctatatt ttttaataac cgttctgtag cgattaatat attgctctcc      420
agaggataca ctatatgaaa tatattaaaa gtcattaatt ttnattcaat gttgtttaga      480
gttatgttca gtgtttggna ataggatgtg tttctaaacc gtcttggggt ctataataaa      540
ttctattcctt anaggtttt                                     559

```

<210> 121

<211> 481

<212> DNA

<213> Escherichia coli

```

<400> 121
catgtccctt cctgaatact ggggagaaga gcacgtatgg tgggacggca gggctgcttt      60
tcatggtgag gttgtcagac ctgcctgtac tctggcgatg gaagacgcct ggcagattat      120
tgatatgggg gaaaccccgg tacggattta cagaatgggt tctccggacc tgaaagaaaa      180
ttcagcctcc ggctcaggaa ttgtgaattt aacagtcagg gtgggaacct tttctctgat      240
tcccggataa ggggtgacttt cgatggcgtc cggggtgaaa cgccggataa gtttaattta      300
tccggtcagg caaaaggcat taatctgcag atagctgatg tcaggggaaa tattgcccgg      360
gcaggaaaag taatgcctgc aataccattg acgggtaatg aagaagcgct ggattacacc      420
ctcagaattg tgagaacgga aaaaaacttg aagccggaaa ttatttttgct gtctggggatt      480
a                                                                481

```


<210> 122

<211> 535

<212> DNA

<213> Escherichia coli

<400> 122

```

ccatatagtg acttcattga acaaaatgta aatggaatct tgctggagaa tgaccacat    60
atatggataa aagctctttc attacttggt agtgcagatc ataaacgtag cgagttggcg    120
ttcaatgcta aaaaatatgc ttgtaaaatt gtaggtgtcg agtaaaaaga tttttttatt    180
taattggtgc tattgaatgt ttaaaaatcg aactgattgg tgttttaata ttaatcatag    240
gttatgatgc aaaaatatat taggcattgc ctgcttcaat taacttgaga gtgtaagttg    300
aattgaaata tggttatatg ataaagcaat atatgttaat acatatgtca accgaaaatg    360
ccattatgtg ttttttactt tatctgtaac gacacaatat ataaaaataag gctaataatc    420
aaaacgcttt ttaatttgat tgttttgaat caagtgacta agaaattctc ttgctgcaaa    480
taactccctt agtgattttt tttgagtcta ttttattctc tgggcatggt catgc        535

```

<210> 123

<211> 412

<212> DNA

<213> Escherichia coli

<400> 123

```

ccggcccat aatgatgggt ttattaaggt tagcgccgac ggtttcgatg aacgatttca    60
ggtcggtatc tttaaaatta gcggtgaaag tggcttcttc cgcccagacc ggtgaactgc    120
ataatgccgc tgccagcacc agcggcagta aacgcttttt tgttttgagg ccagttgtct    180
tcttacgcca gaccgacaac gtcatatcac gccaaaacac gatgaatgat tctcctggat    240
taaatgcggt tagcgcagcg cgatggaaat gtcgtggcgc gcacccttgc gtaaaaccgt    300
aagttgaatg gaatccattg aaggtaactg ccgcatcaga gcaatcattg ctcgtggatc    360
agtgaaatcc tgctgattta gcgcaaatgc gatatcgctt tccttaaaac cg          412

```

<210> 124

<211> 576

<212> DNA

<213> Escherichia coli

<400> 124

tagcctgttc agcgtatatt tgggatgaga agccaaagtg gctttggtgg tgtcccagcc	60
cagggttttta ttactgctgg ttattttacct ttcatgtttt tcaataaagt tgtgactcag	120
ttgaaatctg ctgtcaatgc taatatggga cttttttgtt atagacaagt gactcctttt	180
gcaacttttta tagcacgttt tatgctagaa acaatgggtg gcatgattgt cgggtataatc	240
ctagtactag gattattgtg gtttggtctt gatgcaatac ctgcggatcc attgcaagtg	300
atccttggtt atttcttctt gatgctgttt tctttttctc ttggtattgt attttgtgtt	360
atgtgtaatt krgcgaraga ggcagataaa tttcttagct tgtaaatgat gcctttgatg	420
tttatctctt gtgttatgtt tcctcttgct actattcccc ctcaatatca gcattgggtt	480
tttatggaat ccacttgtgc atgctgtaga actaatccga agggcatggg atatctgggt	540
tatcgtagtc ctgatgtaag ttgggcgtat ctgtcg	576

<210> 125

<211> 132

<212> DNA

<213> Escherichia coli

<400> 125

ttaccaagca ggatctgatg caactggaag aaggctttga atatcgatc attggctgct	60
ccatgtataa catgttggtc gccgtacgcg gtgcctatga cagctttgaa aatgtcaaag	120
gggtgaattg ct	132

<210> 126

<211> 542

<212> DNA

<213> Escherichia coli

<400> 126

gattaggggt cactcaggat tataaaaaag cggcagaata ctataaaaaa ggtgataaaa	60
ataatgatat tacagcacia taccgtctgg caaaacttta tgaacaagg aacggtgtaa	120
aacgtgatta tcaacaagcg ataaacctt accttaaaaca tatcaacaga atggatcaca	180
tactgcccc cagttttgtg gctctgggtg atatctattc tctgggatts ggggtagaga	240
aaaaccacaca actggctgaa aaatggtatc aaaaagcgat agatgcagct aatacacaac	300
ataaccagga aataaatcat taaacgacaa cacttaatac catattgtga agatgttcag	360
acatggcgga attcccctat tctttgttgg cgcttacaac agactatatt ccgccatatc	420
tgtctttatt gtgtataaac catcgatact gatgtttgat agtgctaaat aatcattggc	480
gcaatcacia agcctaagtc cactccagca ataattcccc ccaaccagg cagcataaat	540

gg

542

<210> 127

<211> 382

<212> DNA

<213> Escherichia coli

<400> 127

gaaccactta gcggcagcta tcgggaatcg cctgctgaaa gacggtcaga cagtgattgt	60
ggttaccgtg gctgatgtta tgagtgccct gcacgccagc tatgacgatg ggcagtcagg	120
cgaaaaattt ttgcgggaac tgtgcgaagt ggatctgctg gttcttgatg aaattggcat	180
tcagcgcgag acgaaaaacg aagcaggtgg tactgcacca gattgttgat cgccggacag	240
cgtcgatgcg cacgtgggga trctgacaaa cctgaactat gaggccatga aaacattgct	300
cggcgarcgg attatggatc rcatgaccat gaacggcggg cgatgggtga attttaactg	360
ggagactggc gtccgaatgt cg	382

<210> 128

<211> 126

<212> DNA

<213> Escherichia coli

<400> 128

cgtcccgcac ccggaaatgg tcagcgaacc aatcagcagg gtcacgccta gaaatcatcc	60
ttagcgaaag ctaaggattt tttttatctg aattctagcc agatccccgc tgatttatgc	120
tggtta	126

<210> 129

<211> 258

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (142)..(142)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (205)..(205)

<223> n equals a, t, g, or c

<400> 129

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acccccagcc tagctggggg ttttctgtgc acaaaaaatc ccggcataat ggccgggatt    60
tgcgagcttt cccactatct cttgattcct aaacggaaca tatcagttgg gaataaaggt    120
tgtattatca cttcatcatt anaaatgaat aatttgggcg ataaagctgt tacgtcatag    180
atattttcag cgattaatct taganttgac ctaaaaactg gaatacttgc atcatctgca    240
aagacaaaca tgtcatcg                                258

```

<210> 130

<211> 399

<212> DNA

<213> Escherichia coli

<400> 130

```

aaccagcggg tcgcatcatc tcatcccact gactctccgc ttttgacaga tctgcatatc    60
ctcggggcaa cttatccagt actccgtagt ttgccgattt attcaccgcg cagaacaccg    120
cctcacctgc atcggcaagc cggggggaaa actgataccc cagtagccag aacagaccga    180
aaataatatc gctgctaccc gcagtgtctg tcatgatttc aactggattc agccctgtct    240
gctgctcaag aagtccttcc agtacaaaaa tcgaatcccg taatgtaccg ggtaccacaa    300
tgccatggaa cccagagtac tgatcagata cgaattatac caggtgatgc ctcgtccaga    360
accaaatat tttctgtag atcctgagtt gatggtctt                                399

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<210> 131

<211> 745

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (297)..(297)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (323)..(323)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (330)..(330)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (335)..(335)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (715)..(715)

<223> n equals a, t, g, or c

<400> 131

aaataacatc aacatacatt tgactcgcgg gggaaacggt tacggagtct tcatactggc	60
acttttttat gctgctgact actcttcgtc atcgccatca acatgcgcac gaatcagcgc	120
cataaacggt ttgccaaagc gttccagctt gcgcattcca acgccgttaa cgctgagcat	180
ttcgctggcg gtgatcggca tctgttcagc catctcaatc aagggtgcgt cgttaaacac	240
cacgtacggc gggacattac tttcatcggc tatcgattta cgcagtttgc gtaattnggc	300
gaacagtttg cgatcatagt tgnccggan cgatntctgc atcgctttcg gtttgagcgc	360
cacgatacgc ggcacggcaa ttgcaaagag gattcgccgc gcagcaccgg gcgcgcggcc	420
tctgtcagtt gtagggcaga atgctgggca atattttgcg tcaccaggcc gaggtgaatc	480
agctggcgga tcacgctcac ccaatgttca tggcttttat cacggcccat gccatagact	540
ttcagtttgt catgaccata gtcgcggata cgctggttat tagcaccacg aatcacttcc	600
accacataac ccatcccaa cgcgtgattc acacgaccaa tgggtggaaag ggcaatctga	660
gcatacgggtg aaccgtcgta ctgtttcggc ggatcgaggc agatatcgca gttcnccgca	720

cggtcctga cgcccttcgc caaaa

745

<210> 132

<211> 439

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (108)..(108)

<223> n equals a, t, g, or c

<400> 132

agaatggcgg cttcttgccc ccctttgccc cggtcctgac tagcatggct ggagtccagt	60
gtccaggcca cgaccatgct catcatggaa gcagcttttg tagtacantc gcagcttatt	120
ttcctggaac gaaatgtctg gcatcgtggt gcataacata acccccaatg cccagcagat	180
gcacagaagg ttctagaatc gccactgat atcccataca aaatttacca aaacgtgttc	240
gtattttctcg tataaataat gtctctatgg tgacgttcta gacttcaaac ccactttttg	300
aatttgatga tgtgctccta atctcttcag gaatgtaacg cccttggttt acagctacca	360
atacactgga ggtatactta tctgcaactg gatgaactag atgtacttga gcaaacattt	420
cataagctcg acgacagtt	439

<210> 133

<211> 350

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (97)..(97)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (208)..(208)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (335)..(335)

<223> n equals a, t, g, or c

<400> 133
 ctggaaagcg acgttgatgg attaatgcag tcggtaaaac tgaacgctgc tcaggcaagg 60
 cagcaacttc ctgatgacgc gacgctgcgc caccaantca tggaacgttt gatcatggat 120
 caamtcatcc tgcagatggg gcagaaaatg ggagtgtgaaa tctccgatga gcagctggat 180
 caggcgattg ctaacatcgc gaaacagnac aacatgacgc tggatcagat gcgcaccgtc 240
 tggcttacga tggactgaac tacaacacct atcgtaacca gatccgcaaa gagatgatta 300
 tctctgaagt gcgtaacaac gaggtgcgtc gtcgnatcac catcctgccg 350

<210> 134

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (256)..(256)

<223>

<220>

<221> misc_feature

<222> (256)..(256)

<223> n equals a, t, g, or c

<400> 134
 cccaagatt gctaacaaat gcgcgttggt catgccggat gcggcgtgac cgccttatcc 60
 ggcctacgaa accgcaagaa ttcaatatat tgcaggagcg gtgtaggcct gataagcgta 120
 gcgawtcagg cagttttgcg tttgcccgcg accttagggg acatttagcg accccattta 180
 tttctcactt ttccgcctca tcatgcgcg ttaatttctt tcatgaatca cgctttacaa 240

tatccagcgc gcgcanaacg gtactggcag ggatctgaat tttcctccag cagcacaatc	300
aaatcgacag ccagtttgac atcgtcaagg ggcattttcc cagtgcata atctctccat	360
tgctaagcgg gttaaaacgc gctaacctgt ttcgattttt	400

<210> 135

<211> 463

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (25)..(25)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (432)..(432)

<223> n equals a, t, g, or c

<400> 135

ctatccttat gaccaccaa ctacntcatt tacacccaaa ccagcgatct gaataaagaa	60
gcgattgccc agttacgact gggcggaaaa tgcgcgtaag gatgaagtaa agtttcagtt	120
gagcctggca tttccctgtg gcgtgggatt ttaggcccga actcgggtgtt gggtgcgctct	180
tatacgcaaa aatcctgggtg gcaactgtcc aatagcgaag agtcttcacc gtttcgtgaa	240
accaactacg aaccgcaatt gttcctcggg tttgccaccg attaccgttt tgcagggttg	300
actgcgcgat gtggagatgg ggtataacca cgactctaaa cgggcgttcc gacccgacct	360
cccgcagctg gaaccgcctt tatactcgcc tgatggcaga aaacggtaac tggctggtag	420
aagtgaagcc gnggtatgtg gtgggtaata ctgacgataa ccc	463

<210> 136

<211> 584

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (425)..(425)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (467)..(467)

<223> n equals a, t, g, or c

<400> 136

ttggtcagcc gtacctgaat gggggctgat gcccggctgg ttaatggcag gtggtctgat	60
cgcttggttt gtcggttggc gcaaaacacg ctgatttttt catcgctcaa ggcgggccgt	120
gtaacgtata atgcggcttt gtttaatcat catctaccac agaggaacat gtatgggttg	180
tatcagtatt tggcagttat tgattattgc cgtcatcggt gtactgcttt ttggcaccaa	240
aaagctcggc tccatcggtt ccgatcttgg tgcgtcgatc aaaggcttta aaaaagcaat	300
gagcgatgat gaaccaaagc aggataaaac cagtcaggat gctgatttta ctgcgaaaac	360
tatcgccgat aagcaggcgg atacgaatca ggaacaggct aaaacagaag acgcgaagcc	420
tacgntaaag agcaggtgta atccgtgttt gatatcggtt ttagcgnact gctattggtg	480
ttcatcatcg gcctcgtcgt tctgggggcg caacgactgc ctgtggcggt aaaaacggta	540
gcgggctgga ttcgcgcggt gcgttcactg gcgacaacgg tgca	584

<210> 137

<211> 527

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (108)..(108)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (191)..(191)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (510)..(510)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (513)..(513)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (525)..(525)

<223> n equals a, t, g, or c

<400> 137

gcaggcagga ggaactgccc agtgatacgg ttattcgtga tggcggaggg cagagcctta 60

acggactggc gttgaacacc acgctggata acagagttga gcattggnta cacgggggag 120

ggaaagcaga cgttacaatt attaaccagg atgtttaccc agaccataaa acatggcgga 180

ttggcaaccg naaccatcgt caacaccggt gcagaagktg gtccggagtc tgaaaatgtg 240

tccagcggtc agatgggtcgg agggacggct gaatccacca ccatcaacaa aaatggccgg 300

cagttatctg gtcttcgggg atggcacggg acaccctcat ttgcgctggt ggtgaccaga 360

cggtacacgg agaggcacat aacacccgac tggagggagg ttaaccagta tgtacacaac 420

ggtggcacgg caacagagac gctgataaac cgtgatggct ggcaggtgat taaggaagga 480

gggaactgcc ggcg cattac caccatcaan ccngaaaagg gaaanct 527

<210> 138

<211> 441

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (440)..(440)

<223> n equals a, t, g, or c

<400> 138

```

gtcagtctct gggggaagtg cgtgttccga ccggggaaat gtggtggaga aagttattga      60
aggggcttac gaggtggtgg gggtttttga ccggattgag gaaaagcgtg atgccatgca      120
gtcgtgatt ctgccgccac cggacgccag gcgctggcac aggcggcact gacttaccgt      180
tatggtgacg aacmtcarcc cgtcaccacc gccgacattc tgacaccacg acgccgggar      240
gattacggta aggacctgtg gagtgttat cagaccattc aggagaatat gctgaaaggc      300
ggaatttccg gtcgcagtgc cagaggaaaa cgtatccata cccgtgccat tcacagcatc      360
gacaccgaca ttaagctcaa ccgcgcattg tgggtgatgg ctgaaacgct gctggagagt      420
atgcgctgat gccgtttccn t                                         441

```

<210> 139

<211> 398

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (164)..(164)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (210)..(210)

<223> n equals a, t, g, or c

<400> 139

```

cgagcgagat gaacttcgag ggcggtgtga gccagtcggc ttacgagaca ctggcggcgc      60
ttaatctgcc gaaaccgcag caagggccgg aaaccattaa tcaggttacc gagcataaga      120
tgtcagctga gtaagcctgt atgccggata aggcgctcgc gccnattccg atgaaataag      180
gcgcatcggg cctgaaggaa agccgtatgn atacacccgc agcccgcacg cggcaagtta      240
caacaaataa cctttaacca tgctttttga tgtttttcag caataccccg cggcgatgcc      300
catactggca accgtcggga gggattgatc atcggcagtt ttttgaatgt ggtgatttgg      360

```

gcggttacccc atcatgctgc gccacaacaaat ggcggagt

398

<210> 140

<211> 580

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (566)..(566)

<223> n equals a, t, g, or c

<400> 140

gccgaacaga cacagcaata tgaaccctgc cagcgcagac gcttgctgat taatgctctg	60
aacaaaaggc gaagaatggc aaatcctgcg atcagcaaag tcagcgcacc gactatctgt	120
aacatagtca ctccgtgatg aatatcatgt gtattgtgaa tgccagtgaa tgtggcactg	180
aagcgtttgc acctgtccgg gtcccgggtca tgatgaccgs aacagagaga caatgccgaa	240
ttatcagaag gtcacattca gtgtggcttg gccgttataa ccttcagcgc tgctgccgct	300
gacgctgtgg gcataaccgg cctgaacgcc caggggtgata ttttcccgga cacgggcttc	360
cagtccggcc tgcagctcca gtgacgtgcc attccgggac ggtgagaacg tcatgttact	420
gccggctgcg gctgtaccca tgctcatgtc tccccgggag ctgaagggtgc ggataacaga	480
aggctgtacc caccggttca ccggcagttc acgcacactg tgttttgcac tgtcacgcaa	540
ggtgtcacgg gatgaggtgc cttcancaaa aggtcatatt	580

<210> 141

<211> 446

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (388)..(388)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (399)..(399)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (415)..(415)

<223> n equals a, t, g, or c

<400> 141

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agaatgctcc caggcggttt gtgccggtga cggttgcagc agtgctggta accagtgtc	180
cgccccgtgtt ctgggtgaca tcagacgctt taccgccggc attcacctgc agctttcctt	240
tctggttgat ggtggtatgc gcggcagttc ctccttcctt aatcamctgc cagccatcac	300
ggtttatcag cgtctctgtt gccgtgccaa cgttgtgtac atactgggta mctccctcca	360
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cccgtgccat ccccgaagac cagtaa	446

<210> 142

<211> 327

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (290)..(290)

<223> n equals a, t, g, or c

<400> 142

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atattgccgg agttcgccac tgaccgggtca gaccgggtatc agtgatgact ggccactgcc	180
ttccgtcaac aatggatacc tggttccgtc cacggacccg gacagtccgt atctgattac	240
ggtgaacccg aaactggatr gtctcggaca ggtggacagc catttgtttn ccggactgta	300

tgagcttctt ggagcgaaac cgggtca .PB324D1.ST25.txt

327